TITLE: Preprocessing Modules For Quality Enhancement Of MBE Coders And
Decoders For Signals Having Transmission Path Characteristics
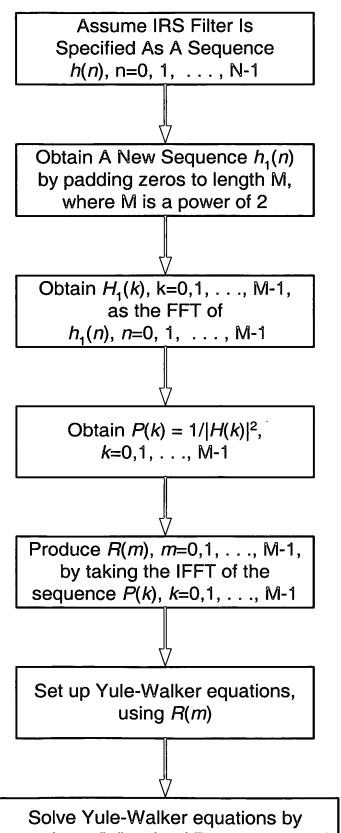Applicants: Puranjoy Bhattacharya, et al.
Serial No.: 09/697,481   Group Unit No.: 2654
Filed: 10/26/2000   Confirmation No. 3580
Attorney Docket No.: 7416/78600-RPA2   Examiner: Donald L. Storm
FIG. 9

Assume IRS Filter Is
Specified As A Sequence
$h(n)$, n=0, 1, . . . , N-1

Obtain A New Sequence $h_1(n)$
by padding zeros to length M,
where M is a power of 2

Obtain $H_1(k)$, k=0,1, . . ., M-1,
as the FFT of
$h_1(n)$, n=0, 1, . . . , M-1

Obtain $P(k) = 1/|H(k)|^2$,
k=0,1, . . ., M-1

Produce $R(m)$, m=0,1, . . ., M-1,
by taking the IFFT of the
sequence $P(k)$, k=0,1, . . ., M-1

Set up Yule-Walker equations,
using $R(m)$

Solve Yule-Walker equations by
assuming a "q" order AR model through
the Levinson-Durbin method to obtain
the required all-pole filter coefficients.

Fig. 9